

Software Engineering Lab

Experiment-1

HU22CSEN0102048

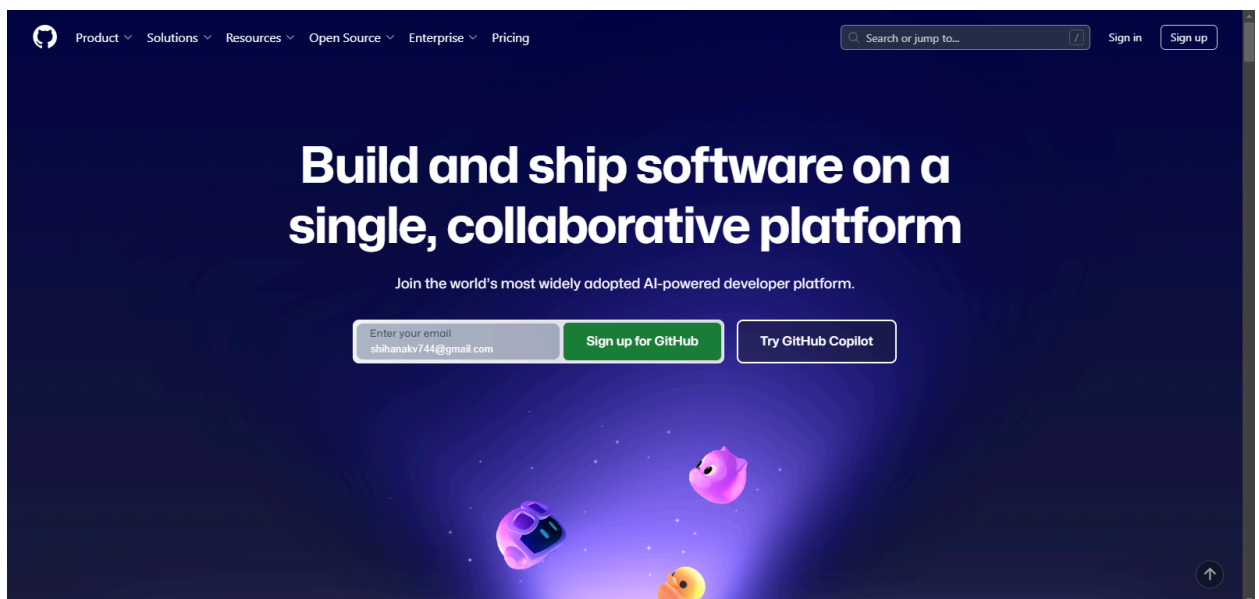
G Datta Eshwar

❖ Difference between Git and Git-Hub.

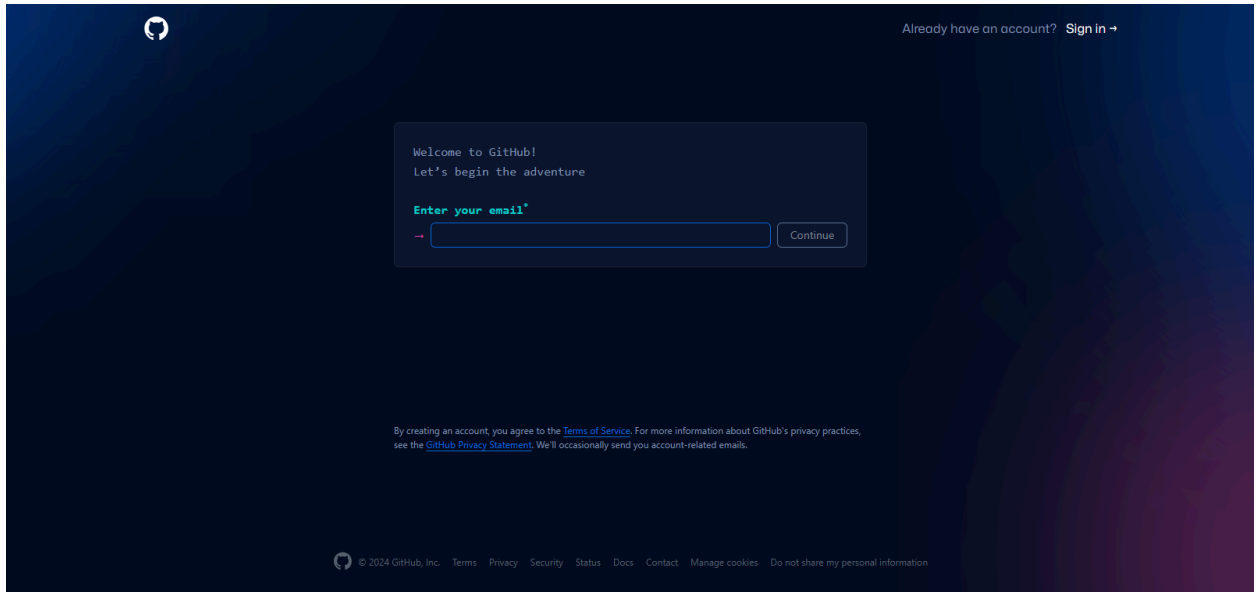
The diff b/w git and github git is a version control system that lets you manage and keep track of your source code history. GitHub is a cloud-based hosting service that lets you manage Git repositories. Git is Installed locally on your computer while github is Web-based, with optional desktop app. Git has features of Version tracking, branching, merging while github has Hosting, collaboration tools, pull requests, actions, project boards. Git is Owned and maintained by individual users on their machines while github is Owned and maintained by GitHub, Inc.

❖ Creating Account in GitHub:

1. Go to github.com and press sign up to create an account :

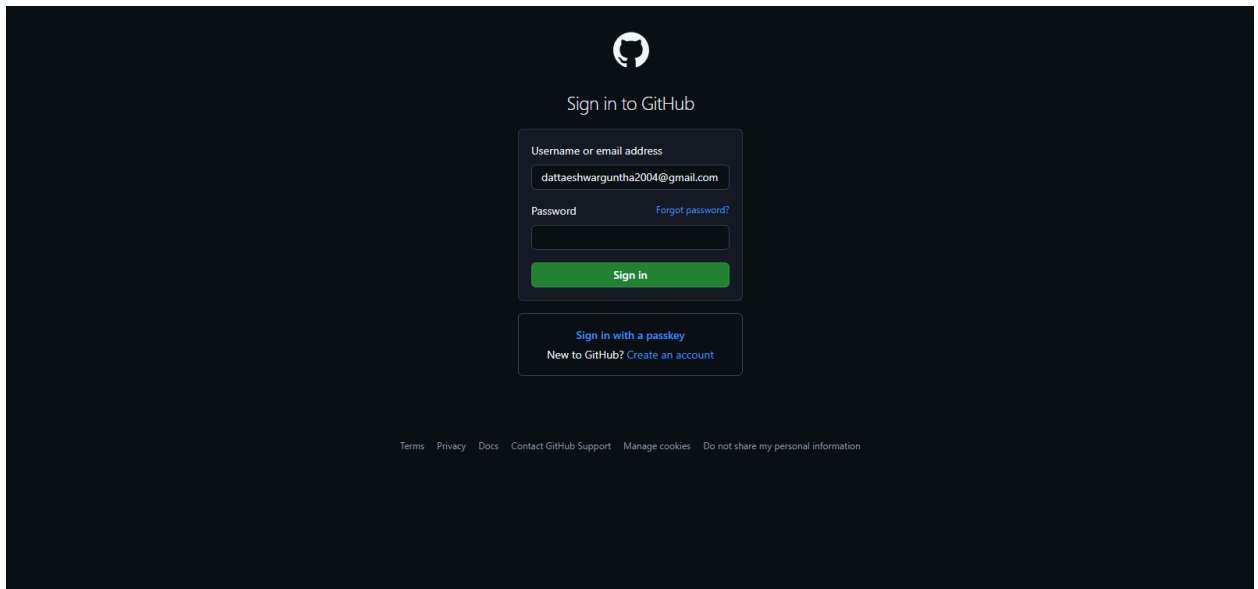


2. Enter your email address and password and verify your account :



The image shows the GitHub account creation page. At the top left is the GitHub logo. At the top right, it says "Already have an account? [Sign in](#) →". The main content area has a dark blue background with a white box in the center. Inside the box, it says "Welcome to GitHub!" and "Let's begin the adventure". Below this, it says "Enter your email*" and has a text input field with a red cursor. To the right of the input field is a "Continue" button. At the bottom of the box, there is a small disclaimer: "By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related emails." At the very bottom of the page, there is a footer with the GitHub logo, "© 2024 GitHub, Inc.", and links for "Terms", "Privacy", "Security", "Status", "Docs", "Contact", "Manage cookies", and "Do not share my personal information".

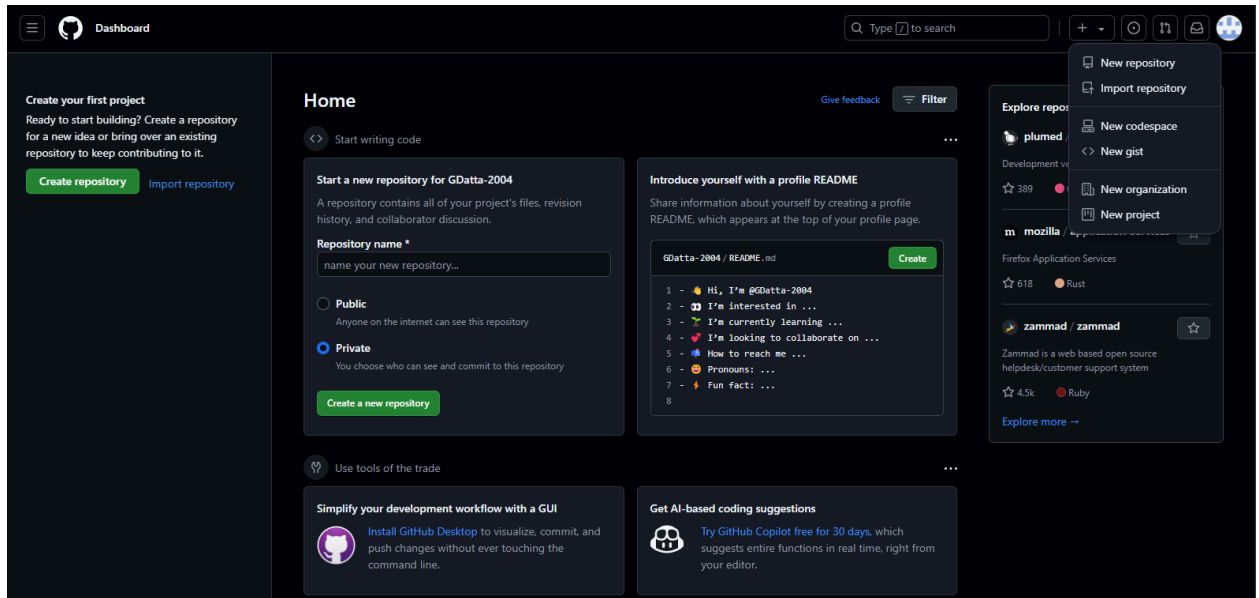
3. Now after the account is created login to the account :



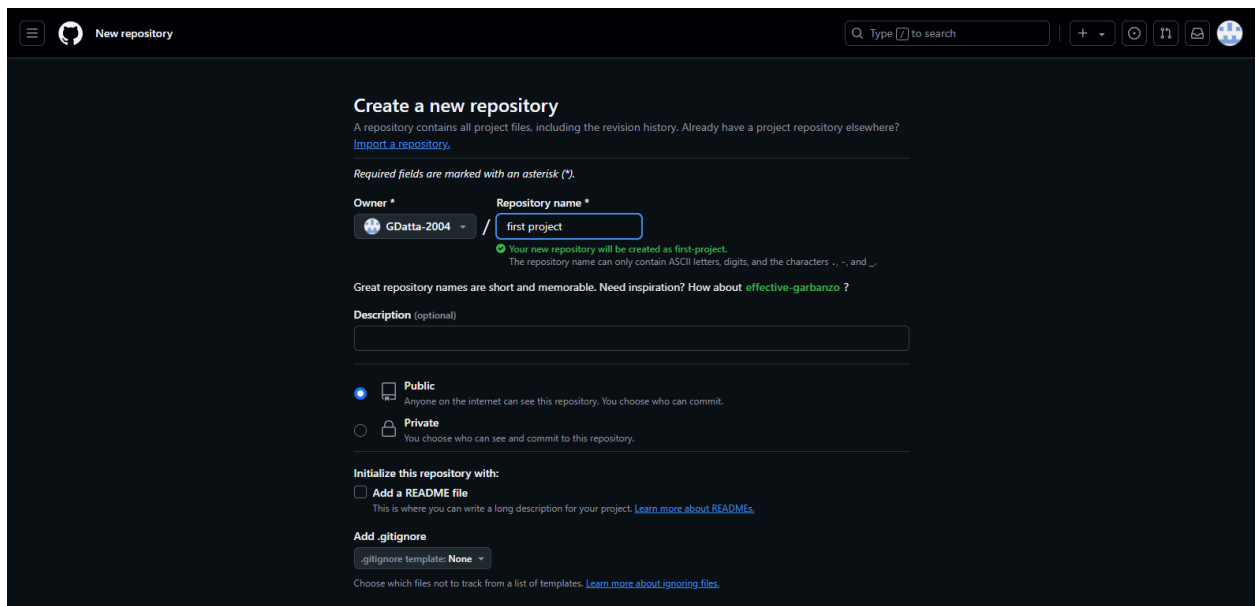
The image shows the GitHub sign-in page. At the top center is the GitHub logo. Below it, it says "Sign in to GitHub". The main content area has a dark blue background with a white box in the center. Inside the box, it says "Username or email address" and has a text input field with the email "dattaeshwarguntha2004@gmail.com". Below this, it says "Password" and has a text input field. To the right of the password field is a link "Forgot password?". Below the password field is a green "Sign in" button. Below the "Sign in" button, there is a section for "Sign in with a passkey" and a link "New to GitHub? [Create an account](#)". At the very bottom of the page, there is a footer with links for "Terms", "Privacy", "Docs", "Contact GitHub Support", "Manage cookies", and "Do not share my personal information".

❖ Creating a Repository:

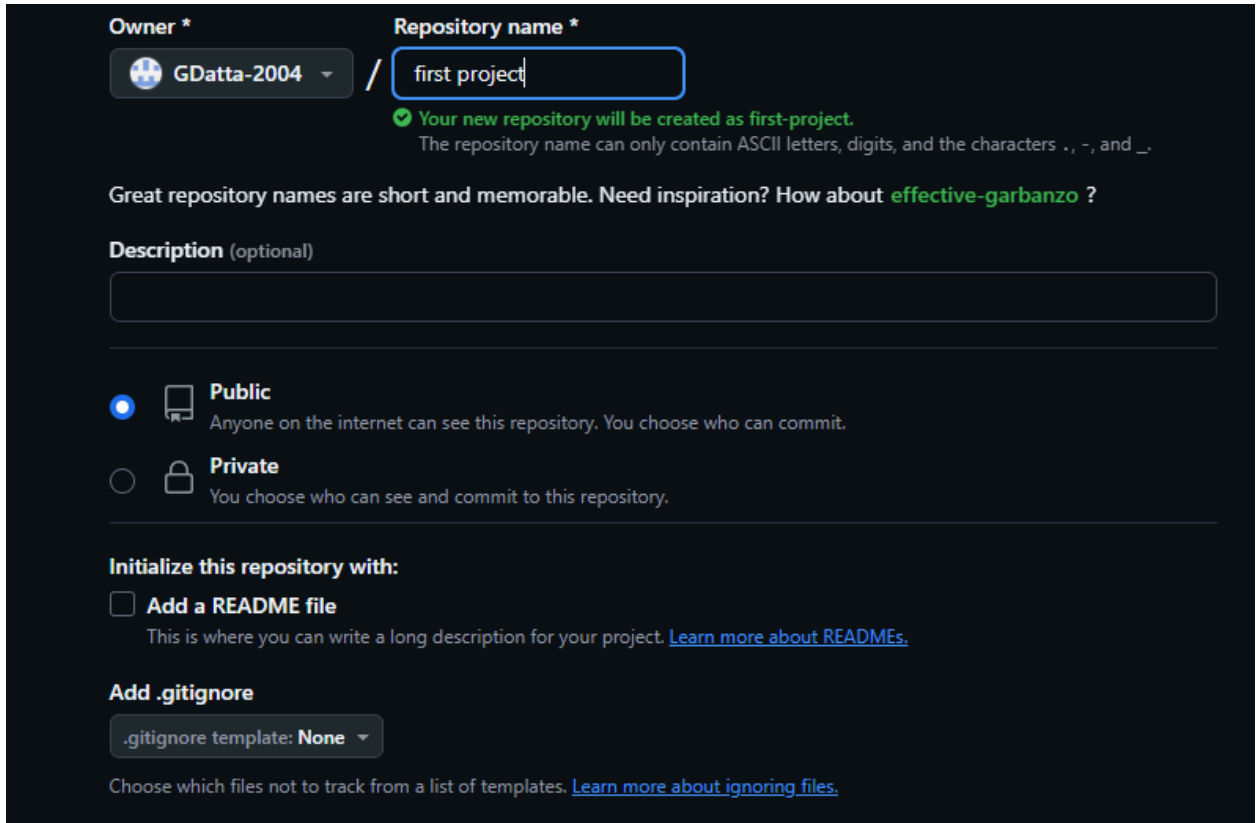
1. Click the “+” icon in the upper right corner and select “New repository.” :



2. Enter a repository name and description :



3. Choose whether the repository will be public or private :



The screenshot shows the GitHub repository creation interface. At the top, the 'Owner' is 'GDatta-2004' and the 'Repository name' is 'first project'. A green message states: 'Your new repository will be created as first-project. The repository name can only contain ASCII letters, digits, and the characters ., -, and _.' Below this, a suggestion for a repository name is provided: 'Great repository names are short and memorable. Need inspiration? How about **effective-garbanzo** ?'. The 'Description (optional)' field is empty. Under the 'Visibility' section, the 'Public' option is selected with a radio button, and the 'Private' option is unselected. The 'Initialize this repository with:' section has the 'Add a README file' checkbox checked. Below this, the '.gitignore template' is set to 'None'. A link to 'Learn more about ignoring files.' is provided at the bottom.

Owner * / Repository name *

GDatta-2004 / first project

✓ Your new repository will be created as first-project.
The repository name can only contain ASCII letters, digits, and the characters ., -, and _.

Great repository names are short and memorable. Need inspiration? How about **effective-garbanzo** ?

Description (optional)

☒ **Public**
Anyone on the internet can see this repository. You choose who can commit.

☐ **Private**
You choose who can see and commit to this repository.

Initialize this repository with:

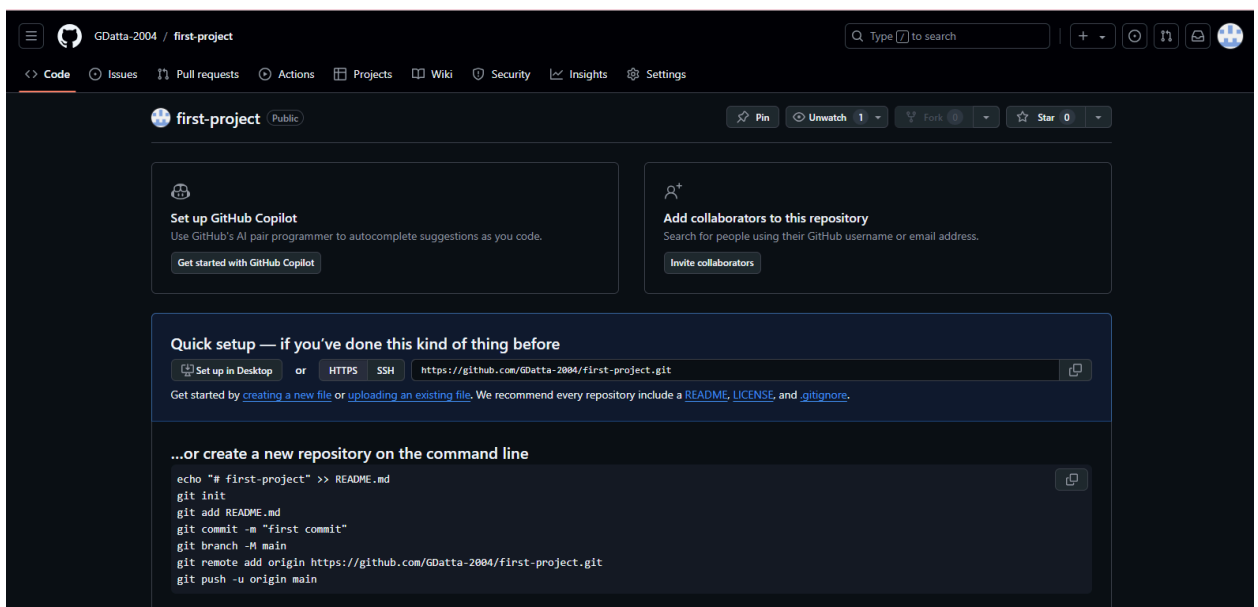
☒ **Add a README file**
This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

.gitignore template: **None**

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

4. Click “Create repository.” :



The screenshot shows the GitHub repository page for 'first-project'. The repository is public. The page includes a navigation bar with links to Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The repository name 'first-project' is displayed with a 'Public' label. Below the repository name, there are buttons for 'Pin', 'Unwatch' (1), 'Fork' (0), and 'Star' (0). The main content area features two cards: 'Set up GitHub Copilot' and 'Add collaborators to this repository'. Below these cards, there is a 'Quick setup' section with instructions for setting up the repository on the desktop or using HTTPS, SSH, or a command line. The command line instructions are as follows:

```
echo "# first-project" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/GDatta-2004/first-project.git
git push -u origin main
```